BRUHATH BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements & Asphalting roads at Manjunatha Nagara Tenginathota in Bagalagunte Ward No:14

DETAILED ESTIMATE

Ward No. 14					Est. Cost	5000000.00		
Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
1	2	3	4	5	6	7	8	9
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No.142..,I.No.19.1 of KPWD S.R 2016-17)							
	5 th Cross							
	2 nd Main to 3 rd Main							
	Road Portion	1	115.00	5.00	0.50	287.50		
	Desilting of Drains	2	115.00	0.50	0.50	57.50		
	4 th Cross							
	3 rd Main to 2 nd Main	1	120.00	5.40	0.50	324.00		
	Desilting of Drains	2	120.00	0.50	0.50	60.00		
	3Rd Cross							
	2 nd Main to 3rd Main	1	115.00	6.00	0.50	345.00		
	Desilting of Drains	2	115.00	0.50	0.50	57.50		
	2 nd Cross							
	2 nd Main to 3rd Main	1	115.00	5.50	0.50	316.25		
	Desilting of Drains	2	115.00	0.50	0.50	57.50		
						1505.25	**86.92**	**130836.00**
							Per Cum	
	CSR of 2016-17							
	Basic Rate	82.00						
	Add A.W. 6%	4.92						
	TOTAL	**86.92**						
2	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (Page No. 149 I.No.19.64 of KPWD S.R 2016-17)							
	5 th Cross							
	2 nd Main to 3 rd Main							

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	Road Portion	1	115.00	5.00		575.00		
	5th Cross							
	3 rd Main to 2 nd Main	1	120.00	5.40		648.00		
	3Rd Cross							
	2 nd Main to 3rd Main	1	115.00	6.00		690.00		
	2 nd Cross							
	2 nd Main to 3rd Main	1	115.00	5.50		632.50		
						2545.50	**5.30**	**13491.00**
							Per Sqm	
	CSR of 2016-17							
	Basic Rate		5.00					
	Add A.W. 6%		0.30					
	TOTAL		**5.30**					
3	Construction of Sub Grade and earthen Shoulders with approved material Gravel/Murrum With all Lifts & Leads transporting to site, Spreading Grading to required slope and compacted to meet requirement of Table No.300.2 complete as per specifications (including cost of earth , watering Charges & Compaction by vibratory roller) MORTH Specification No.305 (Page no.148,1 no 19.62 of KPWD S.R 2016-17)							
	5 th Cross							
	2 nd Main to 3 rd Main							
	Road Portion	1	115.00	5.00	0.15	86.25		
	4 th Cross							
	3 rd Main to 2 nd Main	1	120.00	5.40	0.15	97.20		
	3Rd Cross							
	2 nd Main to 3rd Main	1	115.00	6.00	0.15	103.50		
	2 nd Cross							
	2 nd Main to 3rd Main	1	115.00	5.50	0.15	94.88		
						381.83	**350.86**	**133967.00**
							Per Cum	
	CSR of 2016-17							
	Basic Rate		331.00					
	Add A.W. 6%		19.86					
	TOTAL		**350.86**					

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4	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Materia (Page No.155., I. No.20.5.1 of KPWD S.R 2016-17)							
	5 th Cross							
	2 nd Main to 3 rd Main							
	Road Portion	1	115.00	5.00	0.25	143.75		
	4 th Cross							
	3 rd Main to 2 nd Main	1	120.00	5.40	0.25	162.00		
	3Rd Cross							
	2 nd Main to 3rd Main	1	115.00	6.00	0.25	172.50		
	2 nd Cross							
	2 nd Main to 3rd Main	1	115.00	5.50	0.25	158.13		
						636.38	**1546.54**	**984179.00**
							Per Cum	
	CSR of 2016-17							
	Basic Rate	1459.00						
	Add A.W. 6%	87.54						
	TOTAL	**1546.54**						
5	Providng, laying, spreading and compacting crushed stone aggregates of granite/trap/basalt to Wet Mix Macadam specification including premixing the material with water of OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specfications. MORTH Specification NO.406 (Page No. 158,I.No.20.18 of KPWD S.R.2016-17)							
	5 th Cross							
	2 nd Main to 3 rd Main							
	Road Portion	1	115.00	5.00	0.20	115.00		
	4 th Cross							
	3 rd Main to 2 nd Main	1	120.00	5.40	0.20	129.60		
	3Rd Cross							
	2 nd Main to 3rd Main	1	115.00	6.00	0.20	138.00		
	2 nd Cross							
	2 nd Main to 3rd Main	1	115.00	5.50	0.20	126.50		
						509.10	**1768.08**	**900130.00**

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							Per Cum	
	SR of 2016-17							
	Basic Rate	1668.00						
	Add A.W. 6%	100.08						
	TOTAL	**1768.08**						
6	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 (page no.161., I.No.21.6 of KPWD S.R.2016-17)							
	5 th Cross							
	2 nd Main to 3 rd Main							
	Road Portion	1	115.00	5.00		575.00		
	4 th Cross							
	3 rd Main to 2 nd Main	1	120.00	5.40		648.00		
	3Rd Cross							
	2 nd Main to 3rd Main	1	115.00	6.00		690.00		
	2 nd Cross							
	2 nd Main to 3rd Main	1	115.00	5.50		632.50		
						2545.50	**27.56**	**70154.00**
							Per Sqm	
	CSR of 2016-17							
	Basic Rate	26.00						
	Add A.W. 6%	1.56						
	TOTAL	**27.56**						
7	KSRRB 500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 (Page No.161, Item No. 21.7 of KPWD S.R.2016-2017)							
	5 th Cross							
	2 nd Main to 3 rd Main							
	Road Portion	1	115.00	5.00		575.00		
	4 th Cross							
	3 rd Main to 2 nd Main	1	120.00	5.40		648.00		
	3Rd Cross							
	2 nd Main to 3rd Main	1	115.00	6.00		690.00		

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	2 nd Cross							
	2nd Main to 3rd Main	1	115.00	5.50		632.50		
						2545.50		
	For BM and BC (2*2605)					**5091.00**	**11.66**	**59361.00**
							Per Sqm	
	CSR of 2016-17							
	Basic Rate	11.00						
	Add A.W. 6%	0.66						
	TOTAL	**11.66**						
8	SRRB M500-11 : Providing and laying bituminous Macamdam on prepared surface with crushed coarse aggregates as design mix for base/binding course including loading of agregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity transporting the mixed material in tipper to paver and laying mixed materials paver finisher to the required level and grade, roo lling by power roller to achieve the desired density but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour HOM of machineries complete as per specifications using TPH capacity HMP with sensor paver Gr-II (50mm to 75mm) with 3.3% VG-30 Bitumen (Page No.162, Item No. 21.11.5 of KPWD S.R 2016-17)							
	5 th Cross							
	2 nd Main to 3 rd Main							
	Road Portion	1	115.00	5.00	0.05	28.75		
	4 th Cross							
	3 rd Main to 2 nd Main	1	120.00	5.40	0.05	32.40		
	3Rd Cross							
	2 nd Main to 3rd Main	1	115.00	6.00	0.05	34.50		
	2 nd Cross							
	2 nd Main to 3rd Main	1	115.00	5.50	0.05	31.63		
						127.28	**5546.98**	**705992.00**
							Per Sqm	
	CSR of 2016-17							
	Basic Rate	5233.00						
	Add A.W. 6%	313.98						
	TOTAL	**5546.98**						

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9	KSRRB M500-19 : Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications.MORTH specification no.509 using 40-60 TPH capacity HMP with Sensor paver Gr- II (30mm to 45mm) with 6% VG-30 bitumen (Page No.165, Item No. 21.23.12 of KPWD S.R 2016-17)							
	5 th Cross							
	2 nd Main to 3 rd Main							
	Road Portion	1	115.00	5.00	0.04	23.00		
	4 th Cross							
	3 rd Main to 2 nd Main	1	120.00	5.40	0.04	25.92		
	3Rd Cross							
	2 nd Main to 3rd Main	1	115.00	6.00	0.04	27.60		
	2 nd Cross							
	2 nd Main to 3rd Main	1	115.00	5.50	0.04	25.30		
						101.82	**13649.62**	**1389804.00**
							Per Cum	
	CSR of 2016-17							
	Basic Rate	12877.00						
	Add A.W. 6%	772.62						
	TOTAL	**13649.62**						
10	Add Plastic to Bituminous Concrete 8% of Bitumen							
	Qty Vide Item No: 9					**101.82**	**Cum**	
	8 % of the (101.82*8%)=8.145*141 kg					**1148.45**		
						1148.45	**27.00**	**31008.02**
							Per Kg	
11	KSRRB M800-13 Road Markig with Hot Applied Thermoplastic compound with Reflectirising glass beads on Bituminous suface:- Providing and laying of Hot applied thermoplastic compund 2.5mm thick including reflectorising glass beads at 250gm/sqm area thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35 the finished surface to be level uniform and pre firm streads and holes complete as per specficaions (Page No.185,I.No.24.15 of KPWD S.R. 2016-2017)							
	5 th Cross							

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	2 nd Main to 3 rd Main							
	Road Portion	2.5	115.00	0.15		43.13		
	4 th Cross							
	3 rd Main to 2 nd Main	2.5	120.00	0.15		45.00		
	3Rd Cross							
	2 nd Main to 3rd Main	2.5	115.00	0.15		43.13		
	2 nd Cross							
	2 nd Main to 3rd Main	2.5	115.00	0.15		43.13		
						174.38	**542.72**	**94637.00**
							Per Sqm	
	CSR of 2016-17							
	Basic Rate		512.00					
	Add A.W. 6%		30.72					
	TOTAL		**542.72**					
12	KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, die-cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications(Page No 189., I.No.24.41 of KPWD S.R 2016-17)							
	Roads					**490.00**		
						490.00	**359.34**	**176076.60**
							Per No	
	CSR of 2016-17							
	Basic Rate		339.00					
	Add A.W. 6%		20.34					
	TOTAL		**359.34**					
13	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate							
	4th Cross	2	28.00	0.90		50.40		
						50.40	**1834.00**	**92434.00**
							Per Sqm	
14	Lead charges for conveying the excavated earth including loading and unloading upto 10kms as per directions (Page No.140 SL.No.5 of KPWD S.R 2016-17)							
	Qty.vide item No.1					1505.25		

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	Limited To				1505.25	106.00	159557.00
						Per Cum	
	for 10 Kms 2.5x 1.28x10=32	32.00					
	Loading & Unloading charges	68.00					
	CSR of 2016-17	100.00					
	Basic Rate	100.00					
	Add A.W. 6%	6.00					
	TOTAL	**106.00**					
					SubTotal		**4948109.52**
15	Q.C 1% Charges						**50000.00**
16	Miscelleneous & other unforseen charges				LS		**1890.48**
					GRAND TOTAL Rs.		**5000000.00**

CERTIFICATE

1 The work spot have been inspected by me and work is found to be necessary.
2 This estimate is prepared as per CSR of 2016-17
3 This work is not split up
4 The provisions were made in this estimate are adequete and essential
5 This works comes under BBMP Limits

Asst.Engineer
Ward No.14

Asst.Executive Engineer
Bagalagunte Sub Division
B.B.M.P.

Executive Engineer
Dasarahalli Division
B.B.M.P.

ಪತ್ರ ಸಂ. EE/PP/AS/652/17-18 ದಿನಾಂಕ: 23.12.17
ರೂ. [Rs. 50.00 lakhs] Fifty lakhs only.
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

No EE/TS/427/17-18 ದಿನಾಂಕ: 30-12-2017
50.00
R. Fifty Lakhs only
ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂ
ಮುಖ್ಯ
ಸಹಾಯಕರು
ದಾಸರಹಳ್ಳಿ

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